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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/789,821 02/27/2004		Revital Lifshitz-Liron	1662/62902	8234	
26646 7	590 04/13/2006	EXAMINER			
KENYON & KENYON LLP ONE BROADWAY			DESAI, RITA J		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER	
·			1625		

DATE MAILED: 04/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
		10/789,	821	LIFSHITZ-LIRON ET AL.				
Office Action Summary			er	Art Unit				
		Rita J. D	esai	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR THE MAN IS LONGER, FROM THE MAN IS LONGER	AILING DATE OF T of 37 CFR 1.136(a). In no e inication. utory period will apply and will, by statute, cause the ap	THIS COMMUNIC event, however, may a re will expire SIX (6) MON' pplication to become AB	CATION. eply be timely filed THS from the mailing date of this (ANDONED (35 U.S.C. § 133).	,			
Status								
2a) <u></u>	Responsive to communication(s) filed This action is FINAL . 2 Since this application is in condition for closed in accordance with the practice.	b)⊠ This action is or allowance excep	non-final. ot for formal matte	· · · · · · · · · · · · · · · · · · ·	e merits is			
Dispositi	on of Claims							
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □ 10) □	Claim(s) 1-12 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the The oath or declaration is objected to	e withdrawn from continuous and/or election Examiner. a) accepted or begin accepted or begin accepted or begin accepted to the drawing(s) whe correction is required.	requirement. b) objected to be held in abeyand ired if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 C				
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P ' No(s)/Mail Date		Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application (PTo 	O-152)			

Art Unit: 1625

DETAILED ACTION

Page 2

Claims 1-12 are pending.

The rejection under 35 USC 103 still stands.

Applicants arguments that the examiner has not provided any references to show that changing the pH brings about precipitation and then it is dried to form recrystallized Zolendronic acid.

The examiner now is providing references.

One of them is the Separation of impurities from leach Liquors 6.2.2 and selective precipitation 6.2.2.1, 1993. Hayes.

The reference teaches separating impurities from a suspension by selective precipitation by controlling and changing the pH. See the whole document which teaches that changing the pH is a common process for precipitation and removing impurities.

IUPAC Compendium of Chemical Terminology 1997 also defines the precipitation titrations.

Also see chem..vt .edu definition of titration and the relation ship between the pH and neutralization.

Le Chateliers Principle also shows that as the pH changes the reaction proceed in one direction and precipitation would occur. Thus as we increase the H ion concentration (lower the pH) the acid in the solution would proceed to go out of the solution and get precipitated out leaving all the basic impurities in solution. Thus a purer acid would be separated. See the lectures by Angel C.de Dios Chem 056.

Application/Control Number: 10/789,821 Page 3

Art Unit: 1625

Zolendronic acid is an acid of the formula

and in a basic solution it would be

in solution. The addition of an acid would move the reaction in the direction to precipitate it

out.

Also see the principles for Complexation and precipitation Titrations, Volumetric (Titrimetric)

Analysis. These references shed some more light with regards to the precipitation reactions.

Also see the protein purification handbook, 1997, which teaches more commercial use of

changing the pH to precipitate out substances.

Solubility of Ionic Salts in water: Precipitation titrations. Nov. 1996 James Plambeck. Also teaches how salts

precipitate out and the common ion effect.

Thus with the above teaching known to a skill in the art it would have been obvious to

precipitate out the Zolendronic acid from its basic solution by the addition of an acid solution,

thus reducing the pH to obtain the precipitate.

Thus the rejection still stands.

Conclusion

Claims 1-12 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday,9:30 am to 6:00 pm.

Application/Control Number: 10/789,821 Page 4

Art Unit: 1625

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita J. Desai Primary Examiner Art Unit 1625

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R.D. April 10, 2006